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## **Calendar of Events**

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## | CALENDAR OF EVENTS

### **Short Courses in Materials to be Held at the University of Surrey, Guildford, UK**

#### **Introduction to Materials Science and Engineering 24–28 September 2007**

The principal aim is to give a broad introduction to the concepts and practices of Materials Science and Engineering and the structure, properties and applications of the different classes of engineering materials.

The basic structure and property concepts that are fundamental to the study of Materials are introduced. Following overviews of the major groups of materials (metals, polymers, ceramics and composites), the two themes of Materials Science and Materials Engineering are explored. Within Materials Science, the focus is on microstructural development and characterization, through diffraction and microscopy techniques. In Materials Engineering, the use and behaviour of materials in engineering applications is considered.

#### **Introduction to Physical Metallurgy 1–5 October 2007**

##### **Aims**

The course aims to provide an in-depth introduction to the field of Physical Metallurgy. It will provide a rigorous refresher course for those who have not studied it for some time.

##### **Course Content**

This intensive one week course is a complete introduction to the foundations of metallurgy. It aims to enable delegates with a general scientific/engineering background to achieve a broad understanding of the core principles. The course covers the use of equilibrium phase diagrams and transformation diagrams, phase transformations and microstructure-property relationships in metals. These fundamentals are applied to the most important engineering alloys including ferrous, aluminium, titanium and nickel alloys.

**Introduction to Composite Materials Science 5–9  
November 2007**

The course aims to provide a comprehensive introduction to the science and technology of engineering composite materials.

This is a 5 day intensive short course covering the essential concepts and practices of Composite Materials. The course is designed for those with no previous formal introduction to the science of composites and no prior knowledge or experience is assumed. All topics will be introduced from first principles and the emphasis will be on developing an understanding of concepts rather than a detailed review of current practice. The course consists of a mix of lectures (three days) and laboratory and exercise classes (two days).

Students will develop an understanding of the relationship between the constituents of a range of composite materials and composite properties. Students will be aware of important design considerations, processing technologies and test methods, leading to an understanding of the relationship between composite design, fabrication and performance.

Each of these short courses is part of the Advanced Materials Programme: a range of about twenty short courses which may be taken individually or from which seven may be selected and linked together, with a project, to form a modular MSc Degree Programme.

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